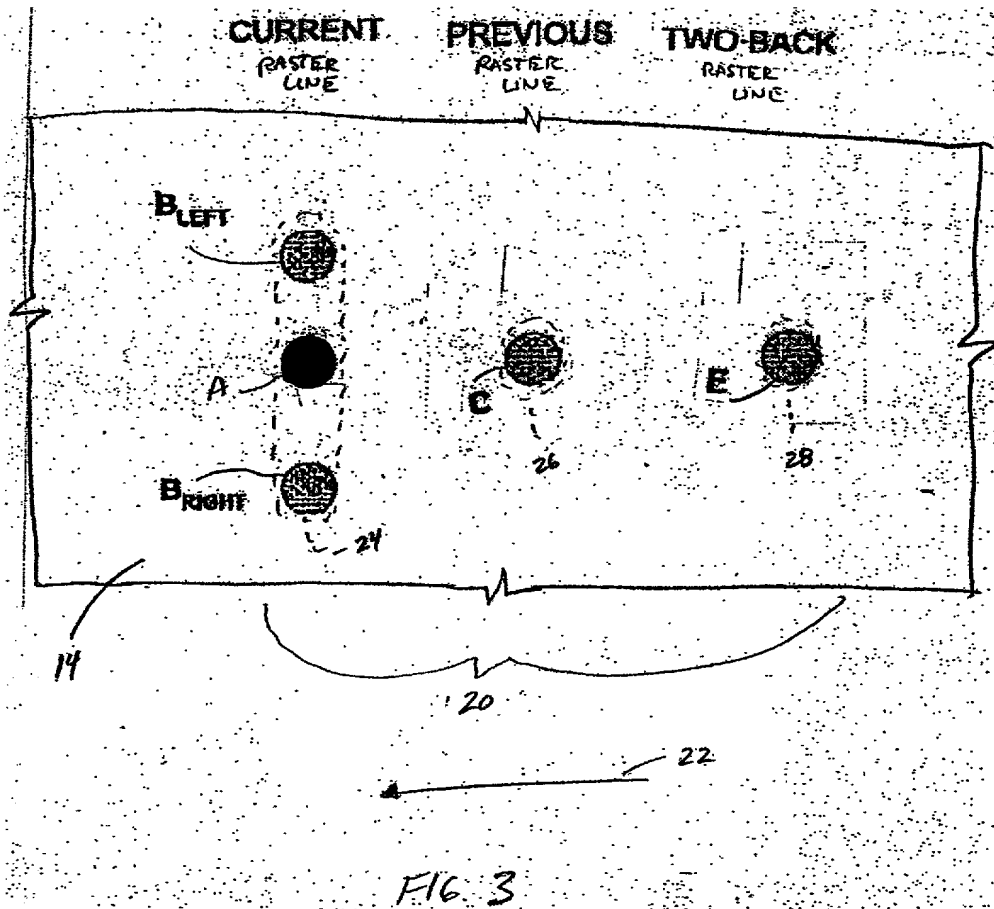
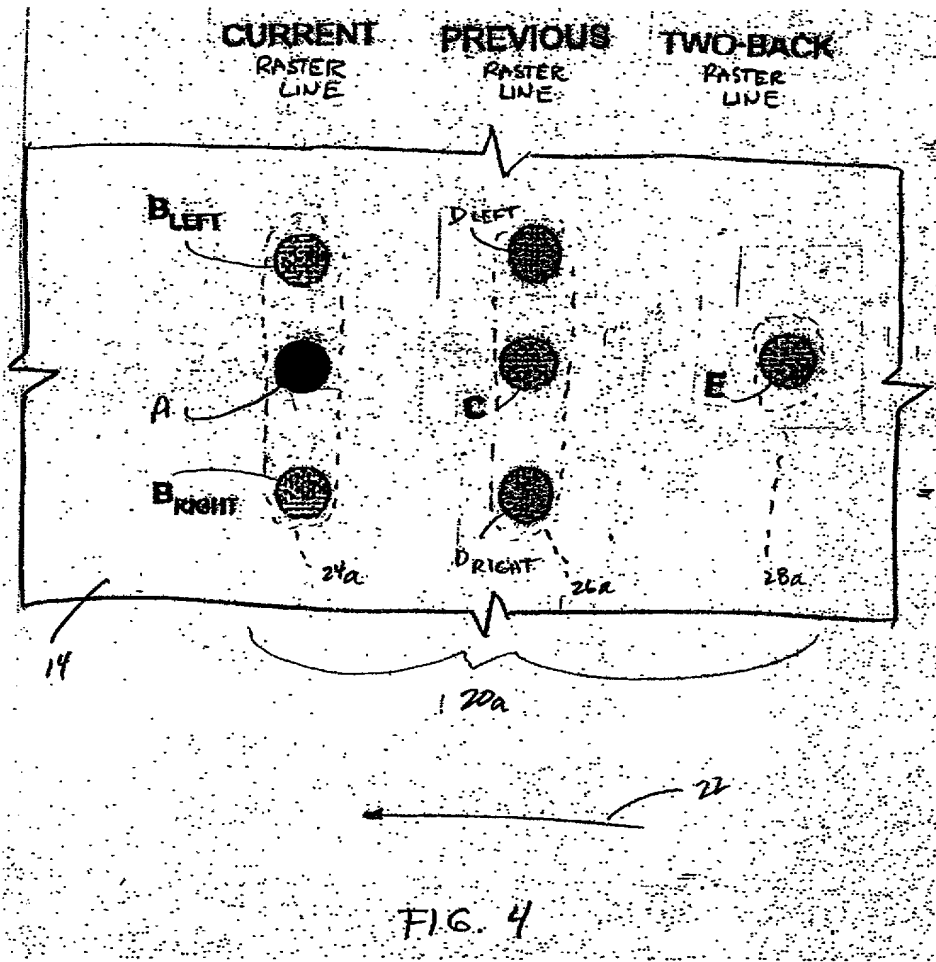


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<u>Index</u>	<u>Microstrobes</u>					<u>Strobe Number</u>
	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

FIG. 5

<u>Index</u>	<u>Microstrobes</u>					<u>Strobe Number</u>
	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	
0	1	1	1	1	1	
1	0	1	1	1	1	
2	0	1	1	1	1	
3	0	0	1	1	1	
4	0	1	1	1	1	
5	0	0	1	1	1	
6	0	0	1	1	1	
7	0	0	1	1	1	
8	1	1	1	1	1	
9	0	1	1	1	1	
10	0	1	1	1	1	
11	0	0	1	1	1	
12	0	0	1	1	1	
13	0	0	0	1	1	
14	0	0	0	1	1	
15	0	0	0	0	1	

FIG. 6

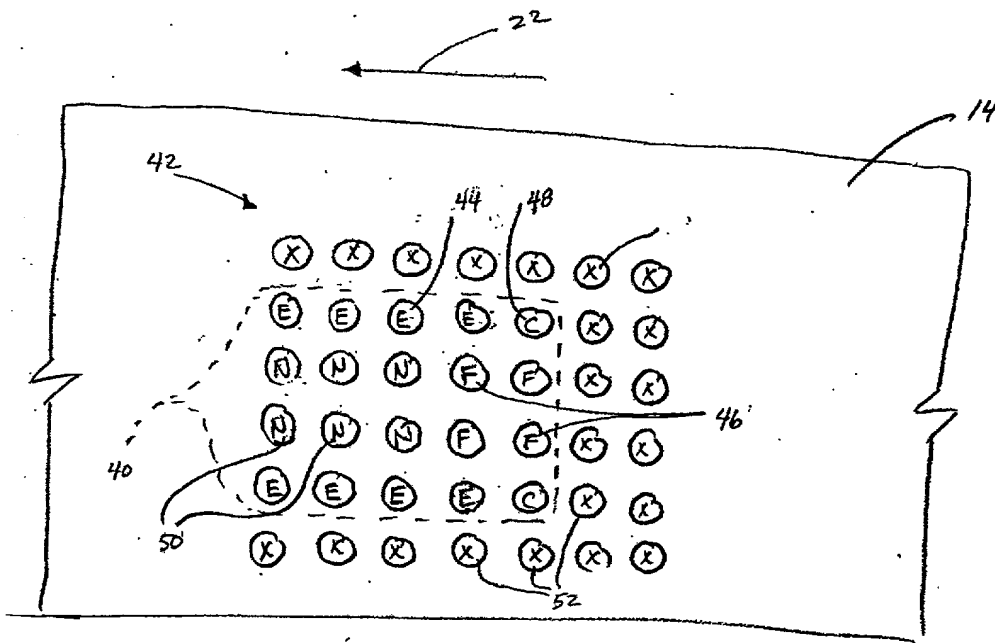


FIG. 7

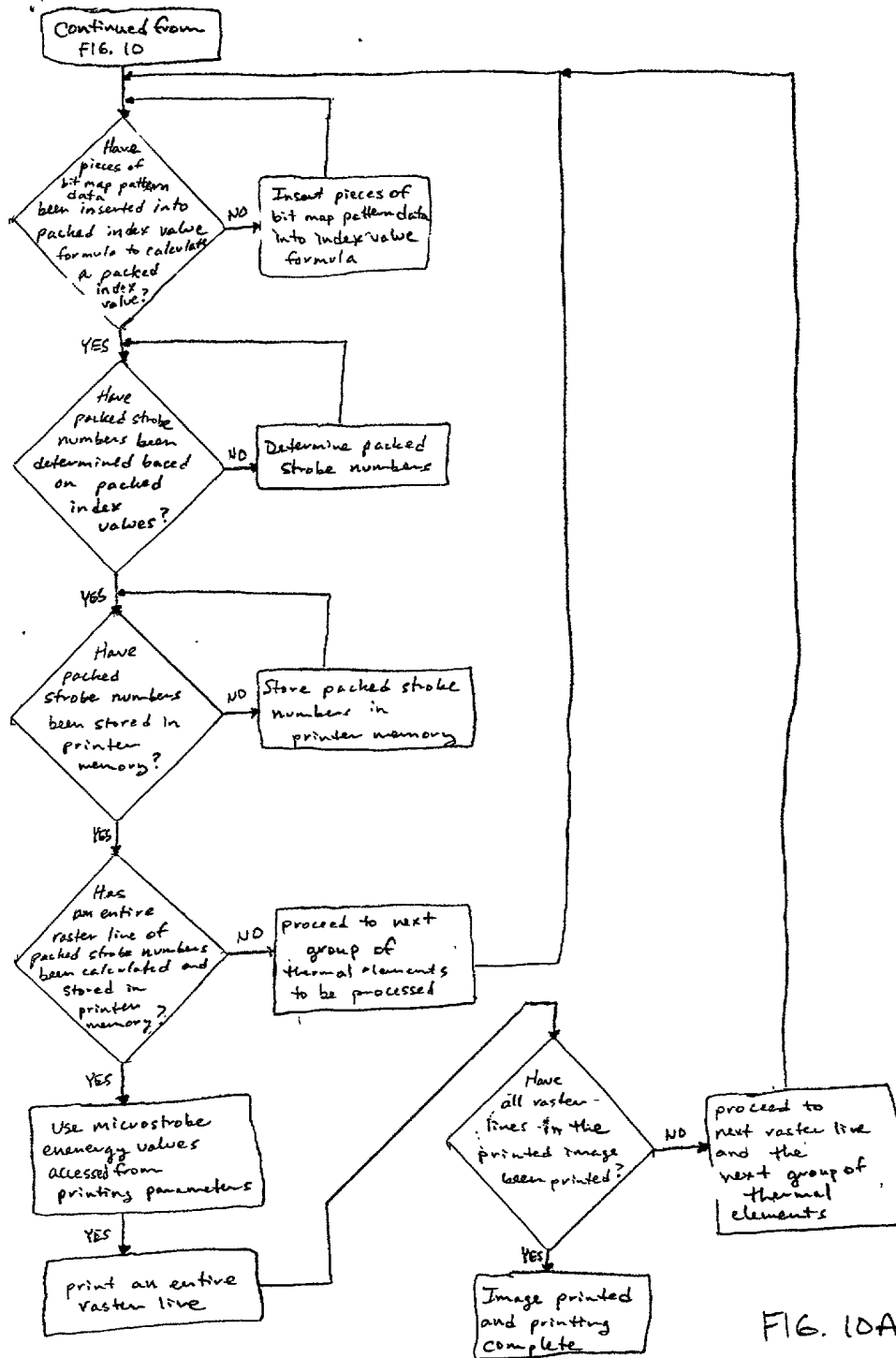
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Microstrobe Energy Values				
S1	S2	S3	S4	S5
1,000	5,000	5,000	4,000	19,000

FIG. 8

Microstrobes						
Index	S1	S2	S3	S4	S5	Strobe Number
0	1	1	1	1	1	31
1	0	1	1	1	1	30
2	0	1	1	1	1	30
3	0	0	1	1	1	28
4	0	1	1	1	1	30
5	0	0	1	1	1	28
6	0	0	1	1	1	30
7	0	0	1	1	1	28
8	1	1	1	1	1	31
9	0	1	1	1	1	30
10	0	1	1	1	1	30
11	0	0	1	1	1	28
12	0	0	1	1	1	28
13	0	0	0	1	1	24
14	0	0	0	1	1	24
15	0	0	0	0	1	16

FIG. 9




```

graph TD
    Start([Start]) --> Step1[Accessing printing parameters and generating printing instructions for a group of thermal elements using a processor]
    Step1 --> Dec1{Have the printing parameters been accessed by the processor and a dot history pattern been chosen?}
    Dec1 -- NO --> Step2[Access printing parameters and select dot history pattern]
    Dec1 -- YES --> Dec2{Has a number of thermal elements for the group been determined and thermal elements assigned to the group?}
    Dec2 -- NO --> Step3[Determine a number of thermal elements for the group and assign thermal elements to the group]
    Dec2 -- YES --> Step4[Generating a packed table comprising values based on the printing parameters, the dot history pattern, the number of thermal elements in the group, and the assigned thermal elements]
    Step4 --> Dec3{Has a packed thermal element number been determined and a packed index been created?}
    Dec3 -- NO --> Step5[Determine a packed thermal element number and create a packed index]
    Dec3 -- YES --> Dec4{Have packed index values been determined?}
    Dec4 -- NO --> Step6[Determine packed index values]
    Dec4 -- YES --> Step7[Use the microstroke number from accessed printing parameters]
    Step7 --> Dec5{Have microstrokes been divided based on number of thermal elements?}
    Dec5 -- NO --> Step8[Divide microstrokes]
    Dec5 -- YES --> Dec6{Have packed binary pulse numbers been assigned to divided microstrokes?}
    Dec6 -- NO --> Step9[Assign packed binary pulse numbers]
    Dec6 -- YES --> Dec7{Have packed stroke numbers been calculated for each thermal element in the group?}
    Dec7 -- NO --> Step10[Calculate packed stroke numbers]
    Dec7 -- YES --> Step11[Packed table complete]
    Step11 --> Dec8{Has a bit map pattern been stored in printer's memory?}
    Dec8 -- NO --> Step12[Store bit map pattern into printer memory]
    Dec8 -- YES --> Step13[Continued in FIG. 10A]
  
```

FIG. 10

FIG. 10

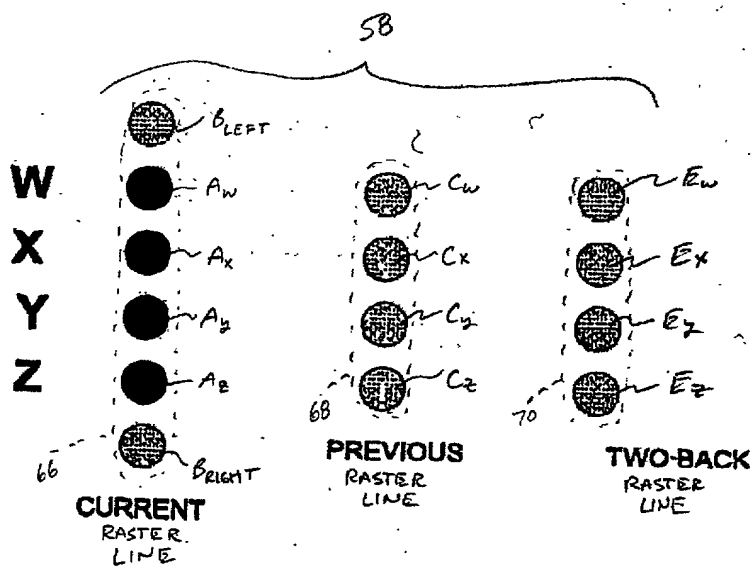


FIG. 11

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Packed Index	Divided Microstrobes																								Packed Strobe Number			
	S1 (W)	S1 (X)	S1 (Y)	S1 (Z)	S2 (W)	S2 (X)	S2 (Y)	S2 (Z)	S3 (W)	S3 (X)	S3 (Y)	S3 (Z)	S4 (W)	S4 (X)	S4 (Y)	S4 (Z)	S5 (W)	S5 (X)	S5 (Y)	S5 (Z)	S6 (W)	S6 (X)	S6 (Y)	S6 (Z)	(W)	(X)	(Y)	(Z)
0																												
1																												
2																												
3																												
4																												
5																												
6																												
7																												

16,378																												
16,379																												
16,380																												
16,381																												
16,382																												
16,383																												

FIG. 12

Packed Index	Divided Microstrobe																Packed Strobe Number			
	S1 (W)	S1 (X)	S1 (Y)	S1 (Z)	S2 (W)	S2 (X)	S2 (Y)	S2 (Z)	S3 (W)	S3 (X)	S3 (Y)	S3 (Z)	S4 (W)	S4 (X)	S4 (Y)	S4 (Z)	S5 (W)	S5 (X)	S5 (Y)	S5 (Z)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1
4	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
5	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
6	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
7	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	0	0	1	1
***	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
***	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
16,378	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0	1
16,379	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	1
16,380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0
16,381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0
16,382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
16,383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1

FIG. 13

Variable	Mean	SD	Min	Max
Age	34.2	10.5	18	65
Gender	0.45	0.50	0	1
Marital Status	0.60	0.49	0	1
Education	12.5	1.2	9	16
Income	15.2	3.5	10	25
Occupation	1.2	0.8	0	2
Health Status	0.75	0.43	0	1
Stress Level	2.1	0.9	1	4
Life Satisfaction	3.8	0.7	3	5
Resilience	4.2	0.6	3	5
Optimism	4.5	0.5	3	5
Self-Efficacy	4.1	0.6	3	5
Emotional Stability	4.3	0.5	3	5
Prosocial Behavior	4.4	0.4	3	5
Life Satisfaction (Control)	3.9	0.7	3	5
Resilience (Control)	4.3	0.6	3	5
Optimism (Control)	4.6	0.5	3	5
Self-Efficacy (Control)	4.2	0.6	3	5
Emotional Stability (Control)	4.4	0.5	3	5
Prosocial Behavior (Control)	4.5	0.4	3	5

Packed Index	Divided Microstrobes																				Packed Strobe Number			
	γ_2										γ_2													
	S1 (W)	S1 (X)	S1 (Y)	S1 (Z)	S2 (W)	S2 (X)	S2 (Y)	S2 (Z)	S3 (W)	S3 (X)	S3 (Y)	S3 (Z)	S4 (W)	S4 (X)	S4 (Y)	S4 (Z)	S5 (W)	S5 (X)	S5 (Y)	S5 (Z)	(W)	(X)	(Y)	(Z)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$\begin{matrix} 1 \\ \downarrow \\ 4 \end{matrix}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	31
3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	30
4	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	31	0
5	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	31	0
6	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	30	30
$\begin{matrix} 7 \\ \downarrow \\ 4 \end{matrix}$	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	30	28	
***	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
***	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
16,378	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	1	16	24	0	28
16,379	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	1	16	24	0	24
16,380	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	1	0	16	16	24	0
16,381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	16	16	24	0
16,382	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	16	16	16	24
16,383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	16	16	16	16

FIG. 14

CURRENT
RASTER
LINE

W 1

X 1

Y 0

Z 1

FIG. 15

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